

Attorney Docket No. I-6909-1919 US

IN THE CLAIMS:

Please cancel claims 17-26 and 29-34 without prejudice or disclaimer to the subject matter contained therein.

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I, 35. (NEW) An immunogenic protein from Dictyocaulus viviparus, wherein the protein has a molecular weight of 15,000 to 18,000 daltons, and an isoelectric point between 5.3 and 5.9

36. (NEW) The immunogenic protein according to claim 35, wherein the protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1; SEQ ID NO:2; SEQ ID NO:3; SEQ ID NO:4; SEQ ID NO:5; SEQ ID NO:6; and SEQ ID NO:7.

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I, 37. (NEW) The immunogenic protein according to claim 35, wherein the protein has a molecular weight of 16,000±1,500 and an isoelectric point of 5.6

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I, 38. (NEW) The immunogenic protein according to claim 35, comprising an amino acid sequence of SEQ ID NO:30, or part thereof having immunogenic properties.

39. (NEW) An isolated nucleic acid molecule which encodes the protein according to claim 35.

Attorney Docket No. I-6909-1919 US

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40. (NEW) The isolated nucleic acid according to claim 39, wherein the nucleic acid sequence is selected from the group consisting of SEQ ID NO:10; SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; and SEQ ID NO:14.

41. (NEW) The isolated nucleic acid according to claim 39, comprising SEQ ID NO:29 or a nucleic acid that hybridizes, under stringent conditions, to a nucleotide sequence according to SEQ ID NO:29.

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42. (NEW) A method for identifying a cDNA clone which comprises an isolated nucleic acid sequence according to claim 39, the method comprising:

(a) obtaining a radioactively or nonradioactively labeled oligonucleotide molecule having a sequence selected from the group consisting of SEQ ID NO:8; SEQ ID NO:9; SEQ ID NO:10; SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; and SEQ ID NO:14, or parts thereof that hybridize to a sequence of the group under stringent conditions; and

(b) screening a cDNA library prepared from *Dictyocaulus viviparus* using the labeled oligonucleotide molecule.

Attorney Docket No. I-6909-1919 US

43. (NEW) A method for identifying a cDNA clone which comprises an isolated nucleic acid sequence according to claim 39, the method comprising:

(a) obtaining a polymerase chain reaction primer having a sequence selected from the group consisting of SEQ ID NO:8; SEQ ID NO:9; SEQ ID NO:10; SEQ ID NO:11; SEQ ID NO:12; SEQ ID NO:13; and SEQ ID NO:14, or parts thereof that hybridize to a sequence of the group under stringent conditions; and

(b) screening a cDNA library or RNAs prepared from *Dictyocaulus viviparus* using the primer.

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44. (NEW) A method for producing a recombinant polypeptide molecule, comprising:

expressing the cDNA clone identified according to claim 42, and

purifying expressed polypeptide molecule.

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45. (NEW) A vaccine, comprising:

a effective amount of the protein according to claim 35, and

a suitable adjuvant or carrier.

Attorney Docket No. I-6909-1919 US

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46. (New) A method for immunizing cattle against *Dictyocaulus viviparous*, comprising:

administering to a cattle in need thereof a vaccine according to claim 45.

61

47. (NEW) A diagnostic kit, comprising:  
the protein according to claim 35.

48. (NEW) A diagnostic kit, comprising:  
the polypeptide sequence according to claim 39.

49. (NEW) A recombinant vector, comprising:  
the nucleic acid molecule according to claim 39.

50. (NEW) A host cell, comprising:  
the vector according to claim 49.